

Continuous preparation of polymers

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Abstract

A process for the continuous preparation of polymers from reaction components, in particular of copolymers of styrene and acrylonitrile, by bulk or solution polymerization, where the reaction components are passed through the tubes of a recycle reactor, the recycle reactor has at least one tube bundle reactor with straight tubes around which a liquid heat-transfer medium flows, and each tube bundle reactor consists of at least two shell and tube heat exchangers which are connected together by at least one intermediate mixing section. Moreover the volume of the shell and tube heat exchangers is at least 50% of the total volume of the arrangement. The intermediate mixing sections consist of tubes with static mixing elements, around which tubes a heat-transfer medium flows.

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